

ABSTRACT

A composite scaffold with a porous ceramic phase and a porous polymer phase. The polymer is foamed while in solution that is infused in the pores of the ceramic to create a interphase junction of interlocked porous materials. The preferred method for foaming is by lyophilization. The scaffold may be infused or coated with a variety of bioactive materials to induce ingrowth or to release a medicament. The multi-layered porous scaffold can mimic the morphology of an injured tissue junction with a gradient morphology and cell composition, such as articular cartilage.